

AMENDMENTS TO THE CLAIMS

Please AMEND claims 1, 5, 8, 10, 11, 17, 18, 21, 22, 25, 32, 33 and 36 and CANCEL claims 2, 16, 24, 31 and 37 without prejudice or disclaimer in accordance with the following:

1. (Currently Amended) A method for managing ~~an optical~~ a recording medium having at least one temporary defect management area (TDMA), at least one defect management area (DMA) and at least one spare area, said method comprising:

writing data associated with ~~written in~~ a defective area to the at least one spare area as replacement data if the defective area within a data area of the ~~optical~~ recording medium is detected; and

writing defect management information in the at least one temporary defect management area for access to the data written in the spare area, wherein said defect management information includes location information indicating a next available address of the at least one spare area~~[[:]]~~, and

~~writing the defect management information written in the at least one temporary defect management area to the at least one defect management area when the optical recording medium is to be finalized.~~

wherein the defect management information includes temporary defect list information and temporary disc structure information in the at least one temporary defect management area,

the location information is written in the temporary disc structure information, and

the temporary defect list information includes one or more defect entries and a defect list terminator following the one or more defect entries, and a defect entry is used to manage the

defective area and the defect list terminator indicates a termination of the temporary defect list information.

2-4. (Cancelled)

5. (Currently Amended) The method according to ~~claim 2~~claim 1, wherein the temporary defect list information has a recording size smaller than four clusters.

6-7. (Cancelled)

8. (Currently Amended) The method according to ~~claim 2~~claim 1, wherein a recording size of the temporary defect list information to be written is varied to a recording size greater than one cluster when a number of defect entries exceeds one cluster of recording size.

9. (Previously Presented) The method according to claim 8, wherein the recording size of the temporary defect list information to be written is varied to a recording size greater than one cluster but smaller than four clusters.

10. (Currently Amended) The method according to ~~claim 2~~claim 1, wherein the ~~optical~~ recording medium is a single layer Blu-ray disc of writable once type (BD-WO) having an inner spare area and an outer spare area assigned thereto, and the location information

includes two pointers, the two pointers indicating next available addresses of the inner spare area and outer spare area, respectively.

11. (Currently Amended) The method according to ~~claim 2~~claim 1, wherein the ~~optical~~ recording medium is a dual layer Blu-ray disc of writable once type (BD-WO) having an inner spare area and an outer spare area assigned to each of a first layer and a second layer respectively, and the location information includes four pointers, the four pointers indicating next available addresses of the inner spare area and outer spare area within the first layer and the second layer, respectively.

12-16. (Cancelled)

17. (Currently Amended) The method according to ~~claim 2~~claim 1, wherein the location information points to a first sector of a next available cluster of the at least one spare area.

18. (Currently Amended) The method as claimed in ~~claim 2~~claim 1, wherein the temporary disc structure information includes physical sector number information corresponding to a location of the temporary defect list information.

19-20. (Cancelled)

21. (Currently Amended) A recording medium comprising:

- a spare area within a data area, said spare area configured to store replacement data;
- a temporary defect management area configured to store defect management information to manage a defective area when the recording medium is under a non-finalized state; and
- a defect management area configured to store the defect management information to manage the defective area when the recording medium is under a finalized state[[:]],

wherein data associated with ~~in~~ the defective area is written in said at least one spare area as the replacement data; and wherein said defect management information includes location information indicating a next available address of the spare area, ~~and the defect management information written in the temporary defect management area is written to the at defect management area when the recording medium is to be finalized.~~

the defect management information further includes temporary defect list information and temporary disc structure information in the at least one temporary defect management area,

the location information is written in the temporary disc structure information, and

the temporary defect list information includes one or more defect entries and a defect list terminator following the one or more defect entries, and a defect entry is used to manage the defective area and the defect list terminator indicates a termination of the temporary defect list information.

22. (Currently Amended) The recording medium according to claim 21, wherein the recording medium is a single layer Blu-ray disc of writable once type (BD-WO) having an inner spare area and an outer spare area assigned thereto, and the location information includes two

pointers, the two pointers indicating next available ~~address~~addresses of the inner spare area and outer spare area, respectively.

23. (Previously Presented) The recording medium according to claim 21, wherein the recording medium is a dual layer Blu-ray disc of writable once type (BD-WO) having an inner spare area and an outer spare area assigned to each of a first layer and a second layer respectively, and the location information includes four pointers, the four pointers indicating next available addresses of the inner spare area and outer spare area within the first layer and the second layer, respectively.

24. (Cancelled)

25. (Currently Amended) The recording medium according to ~~claim 24~~claim 21, wherein the recording medium is a Blu-ray disc of writable once type (BD-WO).

26-31. (Cancelled)

32. (Currently Amended) The recording medium according to ~~claim 24~~claim 21, wherein the location information points to a first sector of a next available cluster of the spare area.

33. (Currently Amended) The recording medium according to ~~claim 24~~claim 21, wherein the temporary disc structure information includes physical sector number information corresponding to a location of the temporary defect list information.

34-35. (Cancelled)

36. (Currently Amended) An apparatus for managing ~~an optical~~a recording medium having at least one temporary defect management area (TDMA), at least one defect management area (DMA), and at least one spare area, said apparatus comprising:

a pickup configured to read data from the ~~optical~~-recording medium and write data on the ~~optical~~ recording medium; and

a controller, operatively coupled to the pickup, configured to control the pickup to write the data associated with ~~written in~~ a defective area to the at least one spare area as replacement data if the defective area within a data area is of the ~~optical~~-recording medium detected; and control the pickup to write defect management information in the at least one temporary defect management area for access to the data written in the spare area~~[[;]], and control to write the defect management information written in the at least one temporary defect management area to the at least one defect management area when the optical recording medium is to be finalized,~~

wherein said defect management information includes location information indicating a next available address of the at least one spare ~~area~~area,

the defect management information includes temporary defect list information and temporary disc structure information in the at least one temporary defect management area,

the location information is written in the temporary disc structure information, and
the temporary defect list information includes one or more defect entries and a defect list
terminator following the one or more defect entries, and a defect entry is used to manage the
defective area and the defect list terminator indicates a termination of the temporary defect list
information.

37-38. (Cancelled)